

SUBMITTAL DATA SHEET

E-Series DuraMAC™ Booster Pumps
Residential | Light Commercial | Irrigation

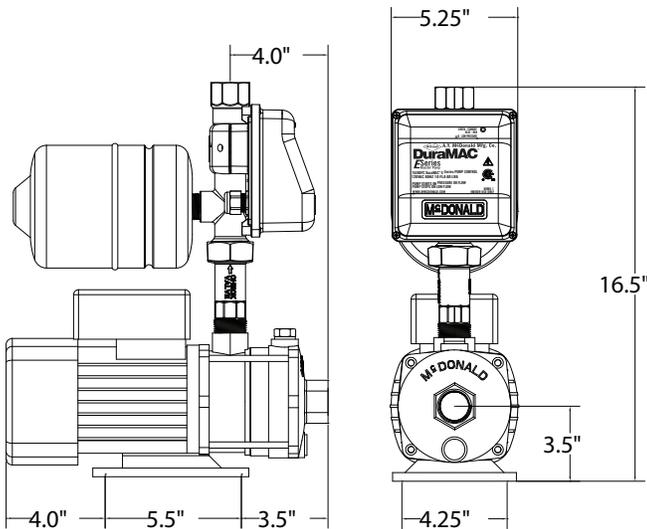
E-Series DuraMAC™ - Residential Booster



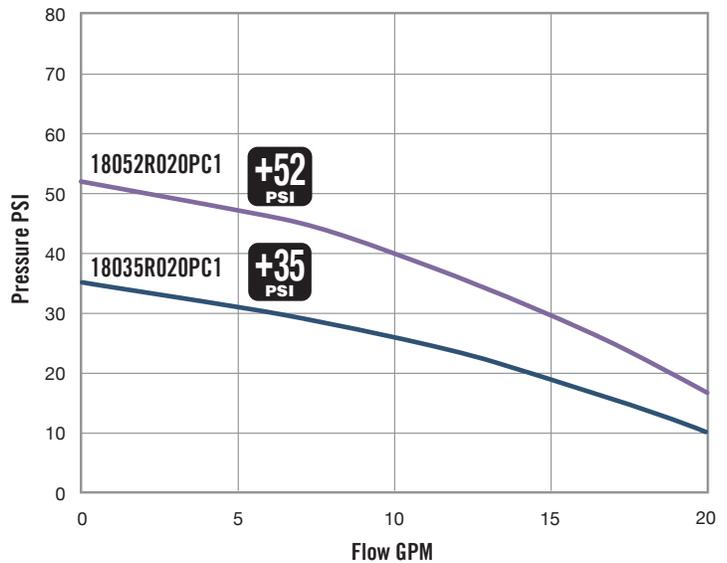
See Pumps & Accessories Price List for Limited Warranty details.

Not all boosting applications require complicated boosting systems. The E-Series DuraMAC™ Boosting system is simple and reliable.

Dimensional Information



DuraMAC™ Performance (Additional Boost)



Models Available

DuraMAC™ Model	Pump Boost	Amps	Voltage	Power	Weight
18035R020PC1	35 PSI	5.5	120 - 60 Hz	1/2 HP	27.1
18052R020PC1	52 PSI	7.0	120 - 60 Hz	3/4 HP	27.7
18035R020PC1SS	35 PSI	5.5	120 - 60 Hz	1/2 HP	27.1
18052R020PC1SS	52 PSI	7.0	120 - 60 Hz	3/4 HP	27.7

SUBMITTAL INFORMATION

- Water pressure boosting system for residential, irrigation or light commercial use
- Easy set-up installation
- All metal connections - no plastic threads
- Half gallon pressure tank included
- TEFC single phase motor for quiet operation
- Electronics separated and sealed from waterway
- Check valve included
- Dry-run protection
- 1 year warranty
- No-Lead Brass/304 Stainless steel check valve included
- 1" inlet and outlet

NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:

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Sizing Information

E-Series DuraMAC™ Booster Systems are designed to shut off when no flow is detected. Pump total pressure boost should be added to current household system pressure to determine total system pressure when boosted. Note: It is not recommended to exceed 80 PSI total boosted household pressure.

Example:

Household system pressure before boost = 30 PSI

$$\begin{array}{r} \underline{30} \\ \text{Household} \\ \text{Pressure} \end{array} + \begin{array}{r} \underline{\hspace{1cm}} \\ \text{Total Pump} \\ \text{Pressure} \end{array} = \begin{array}{r} \underline{\hspace{1cm}} \\ \text{Total Pressure} \\ \text{After Boost} \end{array}$$

*Not Recommended to Exceed 80 PSI

Models Available:

18035R020PC1	+35
18052R020PC1	+52

$$\begin{array}{r} \underline{30} \\ \text{Household} \\ \text{Pressure} \end{array} + \begin{array}{r} \underline{35} \\ \text{Total Pump} \\ \text{Pressure} \end{array} = \begin{array}{r} \underline{65} \\ \text{Total Pressure} \\ \text{After Boost} \end{array}$$

Sizing Chart

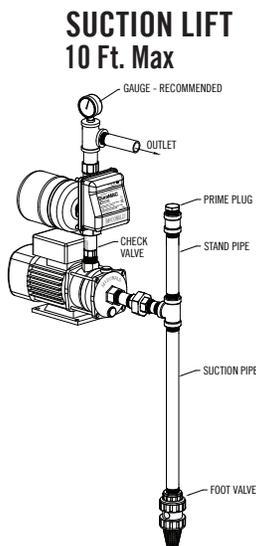
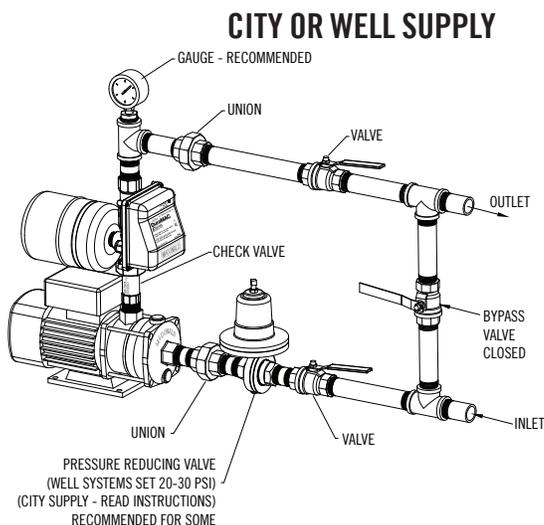
Total static pressure DuraMAC™ pump

Incoming Pressure (PSI)	18035R020PC1 +35 PSI	18052R020PC1 +52 PSI
60		
55	90	
50	85	
45	80	
40	75	
35	70	87
30	65	82
25	60	77
20	55	72
15	50	67
10	45	62

Based on this example, the recommended model for this application is the 18035R020PC1.

For systems with fluctuating pressure, a pressure reducing valve is recommended to assure system pressure stays below 80 PSI.

Typical Installation



Materials of Construction

- Impellers	304 Stainless Steel
- Pump Casing Inlet	301 Stainless Steel
- Pump Casing Outlet	301 Stainless Steel
- Pump Seal (stationary)	Silicon Carbide
- Pump Seal (rotating)	Carbon / NBR
- Diffuser	304 Stainless Steel
- Check Valve	No-Lead Brass / Stainless Steel
- Pump Controller Cross	No-Lead Brass / Stainless Steel

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